



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/659,004

DATE: 09/24/2004
TIME: 13:45:32

Input Set : A:\CURA-908.app
Output Set: N:\CRF4\09242004\J659004.raw

2 <110> APPLICANT: Zhong et al.

4 <120> TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHODS OF USE

7 <130> FILE REFERENCE: 21402-608
 9 <140> CURRENT APPLICATION NUMBER: 10/659004
 10 <141> CURRENT FILING DATE: 2003-09-09
 12 <150> PRIOR APPLICATION NUMBER: 60/295,607
 13 <151> PRIOR FILING DATE: 2001-06-04
 15 <150> PRIOR APPLICATION NUMBER: 60/295,661
 16 <151> PRIOR FILING DATE: 2001-06-04
 18 <150> PRIOR APPLICATION NUMBER: 60/296,404
 19 <151> PRIOR FILING DATE: 2001-06-06
 21 <150> PRIOR APPLICATION NUMBER: 60/296,418
 22 <151> PRIOR FILING DATE: 2001-06-06
 24 <150> PRIOR APPLICATION NUMBER: 60/297,414
 25 <151> PRIOR FILING DATE: 2001-06-11
 27 <150> PRIOR APPLICATION NUMBER: 60/297,567
 28 <151> PRIOR FILING DATE: 2001-06-12
 30 <150> PRIOR APPLICATION NUMBER: 60/298,285
 31 <151> PRIOR FILING DATE: 2001-06-14
 33 <150> PRIOR APPLICATION NUMBER: 60/298,556
 34 <151> PRIOR FILING DATE: 2001-06-15
 36 <150> PRIOR APPLICATION NUMBER: 60/299,949
 37 <151> PRIOR FILING DATE: 2001-06-21
 39 <150> PRIOR APPLICATION NUMBER: 60/300,883
 40 <151> PRIOR FILING DATE: 2001-06-26
 42 <150> PRIOR APPLICATION NUMBER: 60/301,550
 43 <151> PRIOR FILING DATE: 2001-06-28
 45 <150> PRIOR APPLICATION NUMBER: 60/311,972
 46 <151> PRIOR FILING DATE: 2001-08-13
 48 <150> PRIOR APPLICATION NUMBER: 60/315,069
 49 <151> PRIOR FILING DATE: 2001-08-27
 51 <150> PRIOR APPLICATION NUMBER: 60/315,071
 52 <151> PRIOR FILING DATE: 2001-08-27
 54 <150> PRIOR APPLICATION NUMBER: 60/315,660
 55 <151> PRIOR FILING DATE: 2001-08-29
 57 <150> PRIOR APPLICATION NUMBER: 60/322,293
 58 <151> PRIOR FILING DATE: 2001-09-14
 60 <150> PRIOR APPLICATION NUMBER: 60/322,706
 61 <151> PRIOR FILING DATE: 2001-09-17
 63 <150> PRIOR APPLICATION NUMBER: 60/341,186
 64 <151> PRIOR FILING DATE: 2001-12-14
 66 <150> PRIOR APPLICATION NUMBER: 60/361,189
 67 <151> PRIOR FILING DATE: 2002-02-28

ENTERED

P.6

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/659,004

DATE: 09/24/2004

TIME: 13:45:32

Input Set : A:\CURA-908.app

Output Set: N:\CRF4\09242004\J659004.raw

69 <150> PRIOR APPLICATION NUMBER: 60/363,673
70 <151> PRIOR FILING DATE: 2002-03-12
72 <150> PRIOR APPLICATION NUMBER: 60/363,676
73 <151> PRIOR FILING DATE: 2002-03-12
75 <150> PRIOR APPLICATION NUMBER: 10/044564
76 <151> PRIOR FILING DATE: 2002-01-11
78 <150> PRIOR APPLICATION NUMBER: 60/261,014
79 <151> PRIOR FILING DATE: 2001-01-11
81 <150> PRIOR APPLICATION NUMBER: 60/261,018
82 <151> PRIOR FILING DATE: 2001-01-11
84 <150> PRIOR APPLICATION NUMBER: 60/318,410
85 <151> PRIOR FILING DATE: 2001-09-10
87 <150> PRIOR APPLICATION NUMBER: 60/261,013
88 <151> PRIOR FILING DATE: 2001-01-11
90 <150> PRIOR APPLICATION NUMBER: 60/261,029
91 <151> PRIOR FILING DATE: 2001-01-11
93 <150> PRIOR APPLICATION NUMBER: 60/261,026
94 <151> PRIOR FILING DATE: 2001-01-11
96 <150> PRIOR APPLICATION NUMBER: 60/313,170
97 <151> PRIOR FILING DATE: 2001-08-17
99 <150> PRIOR APPLICATION NUMBER: 10/094886
100 <151> PRIOR FILING DATE: 2002-03-07
102 <150> PRIOR APPLICATION NUMBER: 60/274,322
103 <151> PRIOR FILING DATE: 2001-03-08
105 <150> PRIOR APPLICATION NUMBER: 60/313,182
106 <151> PRIOR FILING DATE: 2001-08-17
108 <150> PRIOR APPLICATION NUMBER: 60/288,052
109 <151> PRIOR FILING DATE: 2001-05-02
111 <150> PRIOR APPLICATION NUMBER: 60/318,510
112 <151> PRIOR FILING DATE: 2001-09-10
114 <150> PRIOR APPLICATION NUMBER: 60/274,281
115 <151> PRIOR FILING DATE: 2001-03-08
117 <150> PRIOR APPLICATION NUMBER: 60/314,018
118 <151> PRIOR FILING DATE: 2001-08-21
120 <150> PRIOR APPLICATION NUMBER: 60/274,194
121 <151> PRIOR FILING DATE: 2001-03-08
123 <150> PRIOR APPLICATION NUMBER: 60/274,849
124 <151> PRIOR FILING DATE: 2001-03-09
126 <150> PRIOR APPLICATION NUMBER: 60/296,693
127 <151> PRIOR FILING DATE: 2001-06-07
129 <150> PRIOR APPLICATION NUMBER: 60/313,626
130 <151> PRIOR FILING DATE: 2001-08-20
132 <150> PRIOR APPLICATION NUMBER: 60/332,486
133 <151> PRIOR FILING DATE: 2001-11-09
135 <150> PRIOR APPLICATION NUMBER: 60/275,235
136 <151> PRIOR FILING DATE: 2001-03-12
138 <150> PRIOR APPLICATION NUMBER: 60/275,578
139 <151> PRIOR FILING DATE: 2001-03-13
141 <150> PRIOR APPLICATION NUMBER: 60/288,228

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/659,004

DATE: 09/24/2004

TIME: 13:45:32

Input Set : A:\CURA-908.app
Output Set: N:\CRF4\09242004\J659004.raw

142 <151> PRIOR FILING DATE: 2001-05-02
144 <150> PRIOR APPLICATION NUMBER: 60/275,579
145 <151> PRIOR FILING DATE: 2001-03-13
147 <150> PRIOR APPLICATION NUMBER: 60/312,916
148 <151> PRIOR FILING DATE: 2001-08-16
150 <150> PRIOR APPLICATION NUMBER: 60/275,601
151 <151> PRIOR FILING DATE: 2001-03-13
153 <150> PRIOR APPLICATION NUMBER: 60/311,978
154 <151> PRIOR FILING DATE: 2001-08-13
156 <150> PRIOR APPLICATION NUMBER: 60/276,000
157 <151> PRIOR FILING DATE: 2001-03-14
159 <150> PRIOR APPLICATION NUMBER: 60/276,776
160 <151> PRIOR FILING DATE: 2001-03-16
162 <150> PRIOR APPLICATION NUMBER: 60/296,856
163 <151> PRIOR FILING DATE: 2001-06-08
165 <150> PRIOR APPLICATION NUMBER: 60/276,994
166 <151> PRIOR FILING DATE: 2001-03-19
168 <150> PRIOR APPLICATION NUMBER: 60/291,766
169 <151> PRIOR FILING DATE: 2001-05-17
171 <150> PRIOR APPLICATION NUMBER: 60/277,338
172 <151> PRIOR FILING DATE: 2001-03-20
174 <150> PRIOR APPLICATION NUMBER: 60/288,066
175 <151> PRIOR FILING DATE: 2001-05-02
177 <150> PRIOR APPLICATION NUMBER: 60/277,239
178 <151> PRIOR FILING DATE: 2001-03-20
180 <150> PRIOR APPLICATION NUMBER: 60/315,227
181 <151> PRIOR FILING DATE: 2001-08-27
183 <150> PRIOR APPLICATION NUMBER: 60/318,403
184 <151> PRIOR FILING DATE: 2001-09-10
186 <150> PRIOR APPLICATION NUMBER: 60/277,327
187 <151> PRIOR FILING DATE: 2001-03-20
189 <150> PRIOR APPLICATION NUMBER: 60/277,791
190 <151> PRIOR FILING DATE: 2001-03-21
192 <150> PRIOR APPLICATION NUMBER: 60/325,378
193 <151> PRIOR FILING DATE: 2001-09-27
195 <150> PRIOR APPLICATION NUMBER: 60/277,833
196 <151> PRIOR FILING DATE: 2001-03-22
198 <150> PRIOR APPLICATION NUMBER: 60/278,152
199 <151> PRIOR FILING DATE: 2001-03-23
201 <150> PRIOR APPLICATION NUMBER: 60/310,913
202 <151> PRIOR FILING DATE: 2001-08-08
204 <150> PRIOR APPLICATION NUMBER: 60/303,237,
205 <151> PRIOR FILING DATE: 2001-03-26
207 <150> PRIOR APPLICATION NUMBER: 60/322,360
208 <151> PRIOR FILING DATE: 2001-09-14
210 <150> PRIOR APPLICATION NUMBER: 60/279,036
211 <151> PRIOR FILING DATE: 2001-03-27
213 <150> PRIOR APPLICATION NUMBER: 60/312,191,
214 <151> PRIOR FILING DATE: 2001-03-27

RAW SEQUENCE LISTING DATE: 09/24/2004
 PATENT APPLICATION: US/10/659,004 TIME: 13:45:32

Input Set : A:\CURA-908.app
 Output Set: N:\CRF4\09242004\J659004.raw

```

216 <150> PRIOR APPLICATION NUMBER: 60/280,233
217 <151> PRIOR FILING DATE: 2001-03-30
219 <150> PRIOR APPLICATION NUMBER: 60/303,230,
220 <151> PRIOR FILING DATE: 2001-11-09
222 <150> PRIOR APPLICATION NUMBER: 60/322,296
223 <151> PRIOR FILING DATE: 2001-09-14
225 <150> PRIOR APPLICATION NUMBER: 60/280,802
226 <151> PRIOR FILING DATE: 2001-04-02
228 <150> PRIOR APPLICATION NUMBER: 60/414832
229 <151> PRIOR FILING DATE: 2002-09-30
231 <150> PRIOR APPLICATION NUMBER: 60/409544
232 <151> PRIOR FILING DATE: 2002-09-10
234 <150> PRIOR APPLICATION NUMBER: 60/413342
235 <151> PRIOR FILING DATE: 2002-09-25
237 <150> PRIOR APPLICATION NUMBER: 60/412767
238 <151> PRIOR FILING DATE: 2002-09-24
240 <150> PRIOR APPLICATION NUMBER: 60/412766
241 <151> PRIOR FILING DATE: 2002-09-23
243 <150> PRIOR APPLICATION NUMBER: 60/411060
244 <151> PRIOR FILING DATE: 2002-09-16
246 <150> PRIOR APPLICATION NUMBER: 60/412825
247 <151> PRIOR FILING DATE: 2002-09-23
249 <150> PRIOR APPLICATION NUMBER: 60/410320
250 <151> PRIOR FILING DATE: 2002-09-12
252 <150> PRIOR APPLICATION NUMBER: 60/409145
253 <151> PRIOR FILING DATE: 2002-09-09
255 <160> NUMBER OF SEQ ID NOS: 187
257 <170> SOFTWARE: CuraSeqList version 0.1
259 <210> SEQ ID NO: 1
260 <211> LENGTH: 2383
261 <212> TYPE: DNA
262 <213> ORGANISM: Homo sapiens
264 <220> FEATURE:
265 <221> NAME/KEY: CDS
266 <222> LOCATION: (17)..(2383)
268 <400> SEQUENCE: 1
269 caccaagctt cccacc atg cgg ctg ctg gcc ctg ttg ggg gtc ctg ctg 52
270 Met Arg Leu Leu Leu Ala Leu Leu Gly Val Leu Leu
271 1 5 10
273 agt gtg cct ggg cct cca gtc tcg tcc ctg gag gcc tct gag gaa gtg 100
274 Ser Val Pro Gly Pro Pro Val Ser Ser Leu Glu Ala Ser Glu Glu Val
275 15 20 25
277 gag ctt gag ccc tgc ctg gct ccc agc ctg gag cag caa gag cag gag 148
278 Glu Leu Glu Pro Cys Leu Ala Pro Ser Leu Glu Gln Gln Glu Glu
279 30 35 40
281 ctg aca gta gcc ctt ggg cag cct gtg cgg ctg tgc tgt ggg cgg gct 196
282 Leu Thr Val Ala Leu Gly Gln Pro Val Arg Leu Cys Cys Gly Arg Ala
283 45 50 55 60
285 gag cgt ggt ggc cac tgg tac aag gag ggc agt cgc ctg gca cct gct 244

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/659,004

DATE: 09/24/2004
TIME: 13:45:32

Input Set : A:\CURA-908.app
Output Set: N:\CRF4\09242004\J659004.raw

286	Glu Arg Gly Gly His Trp Tyr Lys Glu Gly Ser Arg Leu Ala Pro Ala			
287	65	70	75	
289	ggc cgt gta cgg ggc tgg agg ggc cgc cta gag att gcc agc ttc cta	292		
290	Gly Arg Val Arg Gly Trp Arg Gly Arg Leu Glu Ile Ala Ser Phe Leu			
291	80	85	90	
293	cct gag gat gct ggc cgc tac ctc tgc ccg gca cga ggc tcc atg atc	340		
294	Pro Glu Asp Ala Gly Arg Tyr Leu Cys Pro Ala Arg Gly Ser Met Ile			
295	95	100	105	
297	gtc ctg cag aat ctc acc ttg att aca ggt gac tcc ttg acc tcc agc	388		
298	Val Leu Gln Asn Leu Thr Leu Ile Thr Gly Asp Ser Leu Thr Ser Ser			
299	110	115	120	
301	aac gat gat gag gac ccc gag tcc cat agg gac ctc tcg aat agg cac	436		
302	Asn Asp Asp Glu Asp Pro Glu Ser His Arg Asp Leu Ser Asn Arg His			
303	125	130	135	140
305	agt tac ccc cag caa gca ccc tac tgg aca cac ccc cag cgc atg gag	484		
306	Ser Tyr Pro Gln Gln Ala Pro Tyr Trp Thr His Pro Gln Arg Met Glu			
307	145	150	155	
309	aag aaa ctg cat gca gta cct gcg ggg aac acc gtc aag ttc cgc tgt	532		
310	Lys Lys Leu His Ala Val Pro Ala Gly Asn Thr Val Lys Phe Arg Cys			
311	160	165	170	
313	ccá gct gca ggc aac ccc acg ccc acc atc cgc tgg ctt aag gat gga	580		
314	Pro Ala Ala Gly Asn Pro Thr Pro Thr Ile Arg Trp Leu Lys Asp Gly			
315	175	180	185	
317	cag gcc ttt cat ggg gag aac cgc att gga ggc att cgg ctg cgc cat	628		
318	Gln Ala Phe His Gly Glu Asn Arg Ile Gly Gly Ile Arg Leu Arg His			
319	190	195	200	
321	cag cac tgg agt ctc gtg atg gag agc gtg gtg ccc tcg gac cgc ggc	676		
322	Gln His Trp Ser Leu Val Met Glu Ser Val Val Pro Ser Asp Arg Gly			
323	205	210	215	220
325	aca tac acc tgc ctg gta gag aac gct gtg ggc agc atc cgt tat aac	724		
326	Thr Tyr Thr Cys Leu Val Glu Asn Ala Val Gly Ser Ile Arg Tyr Asn			
327	225	230	235	
329	tac ctg cta gat gtg ctg gag cgg tcc ccg cac cgg ccc atc ctg cag	772		
330	Tyr Leu Leu Asp Val Leu Glu Arg Ser Pro His Arg Pro Ile Leu Gln			
331	240	245	250	
333	gcc ggg ctc ccg gcc aac acc aca gcc gtg gtg ggc agc gac gtg gag	820		
334	Ala Gly Leu Pro Ala Asn Thr Thr Ala Val Val Gly Ser Asp Val Glu			
335	255	260	265	
337	ctg ctg tgc aag gtg tac agc gat gcc cag ccc cac atc cag tgg ctg	868		
338	Leu Leu Cys Lys Val Tyr Ser Asp Ala Gln Pro His Ile Gln Trp Leu			
339	270	275	280	
341	aag cac atc gtc atc aac ggc agc agc ttc gga gcc gac ggt ttc ccc	916		
342	Lys His Ile Val Ile Asn Gly Ser Ser Phe Gly Ala Asp Gly Phe Pro			
343	285	290	295	300
345	tat gtg caa gtc cta aag act gca gac atc aat agc tca gag gtg gag	964		
346	Tyr Val Gln Val Leu Lys Thr Ala Asp Ile Asn Ser Ser Glu Val Glu			
347	305	310	315	
349	gtc ctg tac ctg cgg aac gtg tca gcc gag gac gca ggc gag tac acc	1012		
350	Val Leu Tyr Leu Arg Asn Val Ser Ala Glu Asp Ala Gly Glu Tyr Thr			

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/659,004

DATE: 09/24/2004
TIME: 13:45:33

Input Set : A:\CURA-908.app
Output Set: N:\CRF4\09242004\J659004.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:39; N Pos. 78,113,236,771,822,863,873,1262,1280,1286,1295,1442,1625
Seq#:39; N Pos. 1626,1628,1775,2168,2255
Seq#:40; Xaa Pos. 20,21,33,74,102,131,136,252,269,283,286,297,416,422,424
Seq#:40; Xaa Pos. 427,476,537,586,665,717,746
Seq#:75; N Pos. 24,25,58,70,172,282,306,337,445,517
Seq#:76; Xaa Pos. 17,21,92,110,146
Seq#:81; Xaa Pos. 346
Seq#:82; Xaa Pos. 346
Seq#:95; N Pos. 38,53,169,308,394
Seq#:96; Xaa Pos. 7,12,51,97,126
Seq#:113; N Pos. 160
Seq#:114; Xaa Pos. 15

VERIFICATION SUMMARY DATE: 09/24/2004
PATENT APPLICATION: US/10/659,004 TIME: 13:45:33

Input Set : A:\CURA-908.app
Output Set: N:\CRF4\09242004\J659004.raw

L:7310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:60
M:341 Repeated in SeqNo=39
L:7469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:16
M:341 Repeated in SeqNo=40
L:10417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:0
M:341 Repeated in SeqNo=75
L:10463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:16
M:341 Repeated in SeqNo=76
L:11522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:336
L:11809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:336
L:12543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:0
M:341 Repeated in SeqNo=95
L:12585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:0
M:341 Repeated in SeqNo=96
L:14957 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 after pos.:120
L:15025 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:0